

EOS M50 Mark II

Specifications

Туре	
Туре	Digital single-lens non-reflex AF/AE camera with built-in flash
Image Processor	DIGIC 8
Recording Media	SD/SDHC/SDXC memory cards • UHS-I compatible
Compatible Lenses	Canon EF-M lens group * Using mount adapter EF-EOS M: Canon EF or EF-S lenses. * RF mount lenses cannot be used.
Lens Mount	Canon EF-M mount
Image Sensor	
Туре	CMOS sensor (supporting Dual Pixel CMOS AF)
Effective Pixels	Approx. 24.1 megapixels
Total Pixels	Approx. 25.8 megapixels
Aspect Ratio	3:2 (Horizontal:Vertical)
Screen Size	Approx. 22.3 x 14.9mm (APS-C)
Recording System	
File Format	Design rule for Camera File system 2.0, Exif 2.31 compliant, Supports time difference information
Data Type	RAW (Canon .CR3, 14-bit); C-RAW (Canon .CR3) and JPEG (8-bit) (12-bit A/D conversion for RAW images in continuous shooting mode)

Recording Pixels	Large: Approx. 24.00 Megapixels Medium: Approx. 5.90 Megapixels Small 1: Approx. 5.90 Megapixels Small 2: Approx. 3.80 Megapixels RAW / C-RAW: Approx. 24.00 Megapixels 3:2 Aspect Ratio Large: Approx. 24 MP (6000 x 4000) Medium: Approx. 10.6 MP (3984 x 2656) Small 1: Approx. 5.9 MP (2976 x 1984) Small 2: Approx. 3.8 MP (2400 x 1600) RAW / C-RAW: Approx. 24 MP (6000 x 4000) 4:3 Aspect Ratio Large: Approx. 21.3 MP (5328 x 4000) Medium: Approx. 5.3 MP (2656 x 1992) Small 1: Approx. 5.3 MP (2656 x 1992) Small 2: Approx. 3.4 MP(2112 x 1600) RAW / C-RAW: Approx. 24 MP (6000 x 4000) 16:9 Aspect Ratio Large: Approx. 20.2 MP (6000 x 3368) Medium: Approx. 5.0 MP (2976 x 1680) Small 1: Approx. 8.9 MP (3984 x 2240) Small 1: Approx. 8.9 MP (3984 x 2240) Small 2: Approx. 3.2 MP (2400 x 1344) RAW / C-RAW: Approx. 24 MP (6000 x 4000) 1:1 Aspect Ratio Large: Approx. 7.1 MP (2656 x 2656) Small 1: Approx. 7.4 MP (6000 x 4000) Medium: Approx. 7.1 MP (2656 x 2656) Small 1: Approx. 2.6 MP 1600 x 1600) RAW / C-RAW: Approx. 2.4 MP (6000 x 4000)
RAW+JPEG Simultaneous Recording	Simultaneous recording of any combination of RAW/C-RAW/ and JPEG image recording quality is supported.
Folder Setting	Creating new folders and selecting folders in the card is possible.
File Numbering	Continuous, Auto Reset
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Still Photo File Size / Number of Possible Shots / Maximum Burst for Continuous Shooting	Large (Fine) Large (Normal) Medium (Fine) Medium (Normal) Small 1 (Fine) Small 1 (Normal) Small 2 RAW C-RAW RAW + Large (Fine) C-RAW + Large (Fine) * The number of possible shots * File size, number of possible specture Style, and Custom Func	8.4 4.5 4.6 2.6 3.1 1.8 1.8 27.2 15.8 27.2 + 8.4 15.8 + 8.4	3600 6610 6480 11400 9690 16010 16340 1120 1930 850 1250	36 35 34 34 34 34 10 16 10 14			
Number of Possible Shots / Maximum Burst for Continuous	Medium (Fine) Medium (Normal) Small 1 (Fine) Small 1 (Normal) Small 2 RAW C-RAW RAW + Large (Fine) C-RAW + Large (Fine)	4.6 2.6 3.1 1.8 1.8 27.2 15.8 27.2 + 8.4 15.8 + 8.4	6480 11400 9690 16010 16340 1120 1930 850	34 34 34 34 30 10 16 10			
Number of Possible Shots / Maximum Burst for Continuous	Medium (Normal) Small 1 (Fine) Small 1 (Normal) Small 2 RAW C-RAW RAW + Large (Fine) C-RAW + Large (Fine) *1 The number of possible shots * File size, number of possible states	2.6 3.1 1.8 1.8 27.2 15.8 27.2 + 8.4 15.8 + 8.4	11400 9690 16010 16340 1120 1930 850	34 34 34 34 10 16 10			
Number of Possible Shots / Maximum Burst for Continuous	Small 1 (Fine) Small 1 (Normal) Small 2 RAW C-RAW RAW + Large (Fine) C-RAW + Large (Fine) *1 The number of possible shots * File size, number of possible s	3.1 1.8 1.8 27.2 15.8 27.2 + 8.4 15.8 + 8.4	9690 16010 16340 1120 1930 850	34 34 34 10 16 10			
Number of Possible Shots / Maximum Burst for Continuous	Small 1 (Normal) Small 2 RAW C-RAW RAW + Large (Fine) C-RAW + Large (Fine) *1 The number of possible shots * File size, number of possible states	1.8 1.8 27.2 15.8 27.2 + 8.4 15.8 + 8.4	16010 16340 1120 1930 850	34 34 10 16 10			
Shots / Maximum Burst for Continuous	Small 2 RAW C-RAW RAW + Large (Fine) C-RAW + Large (Fine) *1 The number of possible shots * File size, number of possible s	1.8 27.2 15.8 27.2 + 8.4 15.8 + 8.4	16340 1120 1930 850	34 10 16 10			
Burst for Continuous	RAW C-RAW RAW + Large (Fine) C-RAW + Large (Fine) *1 The number of possible shots * File size, number of possible states.	27.2 15.8 27.2 + 8.4 15.8 + 8.4	1120 1930 850	10 16 10			
Shooting	C-RAW RAW + Large (Fine) C-RAW + Large (Fine) *1 The number of possible shots * File size, number of possible s	15.8 27.2 + 8.4 15.8 + 8.4	1930 850	16 10			
	RAW + Large (Fine) C-RAW + Large (Fine) *1 The number of possible shots * File size, number of possible s	27.2 + 8.4 15.8 + 8.4	850	10			
	C-RAW + Large (Fine) *1 The number of possible shots * File size, number of possible s	15.8 + 8.4					
	*1 The number of possible shots * File size, number of possible s		1250	14			
	*1 The number of possible shots * File size, number of possible s		1				
	Auto Standard						
	• Auto						
	Standard Portrait						
	• Landscape						
Picture Style	• Fine Detail						
	• Neutral						
	• Faithful						
	Monochrome User Defined 1–3						
	Auto (Ambience priority	v/White priority)					
	Daylight	,, , ,					
	• Shade						
	• Cloudy*1						
	• Tungsten light						
White Balance	White fluorescent light Flash						
Willie Dalalice	Color temperature						
	• Custom (Custom WB)*2						
	White Balance Shift —		agenta~green; ± 9 levels	6			

Movie recording (Disable, Enable)

(Not available if Highlight Tone Priority is active)
Still photo shooting(Disable, Enable or Enhanced)

(Applies to all ISO speeds)

or Enhanced

Auto Lighting Optimizer

(Disable, Low, Standard, or High)

Noise Reduction

Automatic Image

Brightness Correction

Highlight Tone Priority

*2 Custom white balance is not available for monochrome images and images with Creative filters applied.

• High ISO speed NR — Disable, Low, Standard, High, or Multi-shot NR possible

• Long Exposure noise reduction (at shutter speeds 1 second and longer) — Disable, Enable,

Lens Aberration Correction	 Peripheral illumination correction Distortion correction Digital Lens Optimizer (DLO) Chromatic aberration correction Diffraction correction 					
Creative Assist	During shooting (in Scene Intelligent Auto): • Vivid, Soft, Warm, Cool, Green, Shine, Lime, Peach, B&W, Blue, Purple • Image Creation Effects — Background blur, Brightness, Contrast, Saturation, Color Tone 1, Color-tone 2, Monochrome Creative Assist during playback (RAW or C-RAW images): • Auto 1, Auto 2, Auto 3, Vivid, Soft, Warm, Cool, Green, Shine, Lime, Peach, B&W, Blue, Purple, Normal • Image Creation Effects — Brightness, Contrast, Saturation, Color tone 1, Color tone 2, Monochrome					
Autofocus						
Туре	Dual Pixel CMOS AF (1-point AF, Spot AF, Face+Tracking priority AF, Zone AF)					
AF Points	Still photo shooting: Up to 143 zones (Maximum) Video shooting: Up to 117 zones (Maximum)					
Focusing Brightness Range	Still photo shooting: EV -4–18 (at Center AF point, room temperature, ISO 100, f/1.4, in One-Shot AF) Video shooting: EV -2–18 (When set to Face+Tracking. Except for Miniature effect movie).					
AF Operation	One-Shot AF, Servo AF, or Manual Focus					
Touch & Drag AF	Supported (When [Tap to select subject] is disabled)					
Tap to Select Subject	Tap the area on the right of the active touch area to switch to the subject on the right, the area on the left to switch to the subject on the left. Face+Tracking Tap to select subject Active Touch Area Right, Left, Top, Bottom, Top right, Bottom right, Top left, Bottom left * Can be set when [Touch & Drag AF] is disabled.					
AF Assist Beam	Built-in LED lamp					
Exposure Control						
Metering Modes	384-zone (24x16) metering using the image sensor.					
Brightness Metering Range	Stills: EV -2–20 (at room temperature 73°F/23°C, ISO 100) Video: EV 0–20 (at room temperature 73°F/23°C, ISO 100)					
Exposure Control	Via SHOOTING MODE in menu: • Program AE, Shutter-priority AE, Aperture-priority AE, or Manual (B is selected as shutter speed setting in Manual mode)					
ISO Speed Range (Recommended Exposure Index)	Stills: ISO 100–25600 (in 1/3-stop increments) Video: ISO 100-12800; H: 25600					
Exposure Compensation	Manual: ±3 stops in 1/3-stop increments					
AE Lock	Manual, Auto (exposure locked after focusing, in One-Shot AF with Evaluative metering)					

Shutter							
Туре	Electronically controlled focal-plane shutter * Electronic 1st / mechanical 2nd curtain * Except when Silent Mode is set Rolling shutter, using the image sensor * Electronic shutter * When Silent Mode is set						
Shutter Speeds	Creative Zone: 1/4000 to 30 sec., bulb *X-sync at 1/200 sec. Basic Zone: 1/4000 to 1 sec. * Varies depending on shooting mode						
Flash Units							
Built-in Flash	Manual pop-up flash (Max	c. Guide Number approx. 16.4 [ft] / 5.0 [m], at ISO 100)					
Flash Metering Mode	Evaluative (Face Priority)	/ Evaluative / Average					
Flash Exposure Compensation	±2 stops in 1/3-stop incre	ments					
FE Lock	Provided						
Continuous Shooting Priority (CSP) mode	Supported * EL-100 Mode dial set to ON * Flash mode set to CSP * ISO speed is automatically set to ISO Auto						
External Flash	Not supported						
Drive, Self-timer Sy	stem						
Drive Mode and Continuous Shooting Speed (Approx.)	Single Shooting Continuous Shooting When set to ONE SHOT AF: Max. Approx. 10 shots/sec.*1 When set to SERVO: Max. Approx. 7.4 shots/sec.*1 Self-timer: 10 sec. / Single shooting with a remote control*2 Self-timer: 2 sec. Shoots 2 sec. after the shutter button is pressed Takes the specified number of shots 10 sec. after the shutter button is pressed *1 Conditions for maximum continuous shooting speed are as follows: fully charged Battery Pack LP-E12, shutter speed: 1/1000 sec. or faster room temperature (73°F/23°C), 12 bit *2BR-E1: Supported / RC-6: Not supported						
Self-timer Mode Live View Function		0-second self-timer, Continuous timer					
Aspect Ratio Settings	3:2, 4:3, 16:9, 1:1 (Frame Grab images from 4K movies cannot be cropped)						
Focus Mode	AF, MF, AF+MF (Manual focus after One-Shot AF) MF peaking provided						
Continuous AF	Provided						
Touch Shutter	Provided						
Grid Display	Off / 3x3 / 6x4 / 3x3+diag						
Depth of Field Preview	Provided						
Video Shooting							
Recording System	MP4						
File Format	Video: MPEG-4 AVC / H.264 • Variable (averaged) bit rate Audio: AAC						

	Movie Recording		Resolution	Frame Rate (fps) ¹	Compression Format	Audio	Recording Format		
	4K (UHD)*1		3840 x 2160	23.98					
	Full HD		1920 x 1080	59.94 29.97 23.98					
	HD		1280 x 720	59.94					
	Hybrid Auto	Full HD	1920 x 1080	59.94 29.97 23.98	- IPB (Standard)	AAC	MP4		
Recording Size and		HD	1280 x 720	59.94	2 (3.2				
Frame Rate	Video Snapshot	Full HD	1920 x 1080	29.97 23.98			IVII 4		
	Miniature Effect Movies*2	Full HD	1920 x 1080	29.97 23.98					
	High Frame Rate Movies*2*3	HD	1280 x 720	119.88		_			
	Time-lapse	4K*1	3840 x 2160	29.97					
	Movies*2*3	Full HD	1920 x 1080	29.97	ALL-I				
	*2 Sound recording, Movie Servo AF, Movie Digital IS, and Movie Auto Level are disabled. *3 AF disabled during shooting.								
Movie Exposure	Movie Auto Exposure; Movie Manual Exposure								
Modes	· · · · · · · · · · · · · · · · · · ·								
Metering Mode	Evaluative metering / Center-weighted metering (when no faces are detected)								
Exposure Compensation	±3 stops in 1/3-stop increments								
ISO Speed (Recommended Exposure Index)	ISO 100- Maximum 6400/12800 H:25600								
Miniature Effect Movie	Provided (Full HD 1920 x 1080, 29.97 fps)								
Still Image Shooting	Provided (Possible with Hybrid Auto setting; HD 1280 x 720 at 29.97 fps)								
	Video R	Video Recording Size			128GB	File Size (a	pprox.)		
	4K (3840 x 2160)	23.98 fps		35 min.	2 hr. 21 min.	120 Mb 861 MB/	min.		
	Full HD	59.94 fps		1 hr. 10 min.	4 hr. 43 min.	60 Mb 432 MB/			
Continuous Shooting Time	(1920 x 1080)	29.97 fps 23.98 fps	IPB (Standard)	2 hr. 20 min.	9 hr. 23 min.	30 Mb 217 MB/	ps min.		
	HD	59.94 fps		2 hr. 42 min.	10 hr. 49 min.	26 Mb 188 MB/	min.		
	(1280 x 720)	119.88 fps		1 hr. 22 min.	5 hr. 28 min.	52 Mb 372 MB/			
		* Limitations of video shooting: continuous shooting is possible until the memory card becomes full or the recording length for one video reaches approx. 29 minutes and 59 seconds (or 7 min. 29 sec. for a HD High Frame Rate Movie). * Recording bit rate of movie images only, sound data not included.							

	V	/ideo Recording	Size	SD card			
	4K (UHD) (3840 x 2160)	IPB (standard)	23.98 fps	UHS-I, UHS speed Class 3 or			
Card Performance	(3840 x 2160)	IPB (standard)	59.94 fps	higher SD Speed Class 10 or higher			
	Full HD (1920 x 1080)	IPB (standard)	29.97 fps	SD Speed Class 6 or higher			
		ii b (standard)	59.94 fps	SD Speed Class 4 or higher			
Requirements	HD (1280 x 720)	IPB (standard)	119.88 fps	SD Speed Class 4 or higher			
	Time-lapse mov- ie 4K (UHD) (3840 x 2160)		29.97 fps	Read speed of 40 MB/s or higher			
	Time-lapse move Full HD (1920 x 1080)	ALL-I	29.97 fps	Read speed of 20 MB/s or higher			
Screen (Monitor)							
Туре	TFT color, liquid-cry	ystal monitor					
Menu Magnification	Double-tap-based supported * You can double-tap with two fingers to zoom in on the area centered between the two double-tapped points.						
Screen Size	3.0-inch type	3.0-inch type					
Dots	Approx. 1.04 million dots						
Brightness Adjust- ment	Manually adjustable to one of seven brightness levels						
Angle of View	Approx. 170° vertically and horizontally						
Interface Languages	29 (English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean, Malay, Vietnamese, Indonesian, Hindi, Japanese)						
Hints & Tips	Displayable						
Playback Function	s						
Playback Methods	Playback on camera's LCD screen • HDMI playback to compatible TVs - (AV cables not supported) • Playback on computer screen - (requires compatible software)						
Playback Display Options	 Single image, or 4, 9, 36, or 100-image index Viewing options via INFO button: full image, full image with basic info, thumbnail image with histogram and detailed shooting info, RGB and Brightness histograms with lens info 						
Zoom Magnification	Approx. 1.5x to 10.0x (Can be activated by double-tapping)						
Image Browsing Methods	Single image 10 images Specified number (1-100 images) Date Folder Movies Still images Protected images Ratings						
Image Rotate	Provided						
Rating	Provided (Off, 1~5 stars)						

Video Playback	Provided (with built-in speaker)			
Playback Time	Approx. 4 hr. 55 min. * With a fully charged LP-E12 * Time when playing back a slideshow of still photos			
Slideshow	 All images Repeat: Enable / Disable Slideshow of images after selection from the search list Background music: Off / On 			
Post-processing of	inages images			
Creative Filters	 Grainy B/W Soft focus Fish-eye effect Art bold effect Water painting effect Toy camera effect Miniature effect 			
Cropping frame movement: Vertical / Horizontal Cropping range: Up to 42 sizes Tilt correction Aspect ratio (3:2, 16:9, 4:3, 1:1, 2:3, 9:16, 3:4) * Frame grab images from 4K movies cannot be cropped.				
Resize	M, S1, S2 * Frame grab images from 4K movies cannot be resized.			
Red-eye Reduction	Provided			
Direct Printing				
Compatible Printers	PictBridge			
Printable Images	• JPEG • RAW / C-RAW			
Custom Functions				
Custom Functions	5 Available			
Customizable Buttons	Stills: Shutter button, AE lock button, Multi-function button, Movie button, Exposure comp. button, AF/MF button, Flash button, Erase button. Movie: AE lock button, Multi-function button, Exposure comp. button, AF/MF button, Flash button, Erase button			
Copyright Info	Provided			
Interface				
Digital Terminal	USB Micro-B (Hi-Speed USB 2.0 compliant)			
HDMI OUT Terminal	Type D (resolution switches automatically) • HDMI output while recording (shooting screen without sound) provided • CEC not supported			
Wireless Remote Control	 Compatible with Wireless Remote Control BR-E1 Not compatible with accessories using the infrared transmission system of Remote Controller RC-6 			

Wi-Fi® (Wireless LA	N)
Standards Compliance	IEEE 802.11b/g/n
Transmission Method	DS-SS modulation (IEEE 802.11b), OFDM modulation (IEEE 802.11g/n)
Transmission Frequency (Central Frequency)	Frequency: 2412–2462 MHz Channels: 1–11 ch
Connection Method and Security	(1) Infrastructure mode a. WPA2-PSK i. AES ii. TKIP b. WPA-PSK i. AES ii. TKIP c. Open i. WEP ii. None d. Wi-Fi® Protected Setup compliant (2) Camera access point mode a. WPA2-PSK i. AES b. Open i. None
Network Functions	
Supported Wireless Functions	 Connect to compatible smart phone or tablet Remote-control camera from compatible mobile device Remote-control camera with optional Canon BR-E1 Remote Controller Send still images or video files to mobile device Upload images to Web service Send images to compatible computer Print to compatible Wi-Fi enabled printer Geo-tag in-camera images with GPS data from compatible smart phone (Bluetooth required)
Transfer Images Between Cameras	Not Possible
Connection to Smart phones	Connect with free Canon Camera Connect app (Android and iOS versions available for compatible mobile devices)
Wireless Connection Types	Wi-Fi® and Bluetooth v. 4.2 (low-energy)

Power Supplies							
Battery	Battery Pack LP-E12						
		Shooting	Tempera-	Shooting Conditions			
		Method	ture	AE: 100% (Flash off)	Flash 50%		
		Viewfinder	73°F / 23°C	Approx. 275 shots	Approx. 250 shots*1		
Number of Photos Taken	Possible shots for sill photo	Shooting	32°F / 0°C	Approx. 245 shots	Approx. 230 shots		
	shooting	On-screen	73°F / 23°C	Approx. 320 shots	Approx. 305 shots*1		
		Shooting	32°F / 0°C	Approx. 305 shots	Approx. 280 shots		
	* With a fully charged LP-E12 battery. * With [Display performance: Power saving] (default setting). *1 CIPA testing standards compliant.						
Dimensions and Weight							
Dimensions (W x H x D)	Approx. 4.58 x 3.47 x 2.31 in. (116.3 x 88.1 x 58.7mm) • CIPA compliant.						
	Black: Approx. 13.65 oz. / 387g (Including battery pack and memory card) Approx. 12.35 oz. / 350g (Body only)						
Weight	White: Approx. 13.69 oz. / 388g (Including battery pack and memory card) Approx. 12.38 oz. / 351g (Body only)						
	* Without body cap *1: Based on CIPA guidelines						
Operating Environ	ment						
Working Temperature Range	32-104°F / 0-40°C						
Working Humidity Range	85% or less						